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Sikorsky Docket No.: S-5545
LPSAC010967

AMENDMENTS TO THE SPECIFICATION:

The amendments made to the specification and the claims are not connected in any way to any rejection in this application. Please replace the following numbered paragraphs with the following rewritten paragraphs:

- [26] A roll ring 42 preferably provides communication from the standpipe 14 (in the stationary field) to the hydraulic pressure system 26 (in the rotational field). The roll ring 42 preferably provides electrical power and communication within the rotational field through a wiring harness 46. The wiring harness 46 extends from the roll ring 42 and is preferably located between an outer wall 48 of the support structure 32 and the inner wall 50 of the rotor shaft 12 (Figure 5). A notched cutout 52 within the flange 36 permits passage of the wiring harness 46 without requiring disassembly during removal/replacement of the support structure 32.
- [27] The wiring harness 46 transmits control signals to the hydraulic pressure system 26 and the individual actuator systems 22 for each blade 20 (Figure 1) of the rotor system 10. It should be understood that other rotational interfaces will also benefit from the present invention. Moreover, other communication systems such as fiber optic bundles and/or other systems will also benefit from the present invention.
- [29] Quick detach couplings 57 (also illustrated in Figure 6) extend from the fluid reservoirs 54, 56 to provide rapid connection and disconnection of the conduits 27 from the hydraulic pressure system 26. As the conduits 27 are relatively short and as the hydraulic pressure system 26 is located primarily within the main shaft 12 and the support structure 32, and rotor hub, ballistic tolerance is enhanced.
- [31] A sliding but non-rotational interface 60 provides engagement between the standpipe 14 and the gear system 58 when the support structure 32 is located within the rotor shaft 12 (also illustrated in Figure 7). The non-rotational interface 60 provides a fastener free rotational coupling such that the gear system 58 need only slide onto the standpipe 14 during installation. The hydraulic pressure system 26 is thereby readily installed and removed as a unit supported by the support structure 32.